



ACEC/NCDOT BRIDGE SUBCOMMITTEE

Minutes of August 18, 2008 Meeting
Structure Design Conference Room B
August 18, 2008
10:30 am

Attendees

Greg Perfetti – NCDOT Structure Design Unit
Lonnie Brooks – NCDOT Structure Design Unit
Peter Graf - LPA
David Simpson – Simpson Engineers
Dave Charters – PB
Mickey Wing – RK&K (Sub for David Peterson)
Hardy Willis – Vaughn & Melton (Sub for Jerry Carter)
Satrajit Das – URS (Sub for Jim Barcomb)

- 1) **Introduction of New Members** - Peter Graf stated that the two new ACEC members of the subcommittee for 2009 are Dave Charters and Jim Barcomb. Rodney Money and Domenic Coletti.
- 2) **Bridge Design Workshop Series** – Topics for the next Bridge Design Workshop were discussed. It was decided that the previously proposed topic, LRFD prestressed superstructure design, did not provide enough material for an entire hour. The following other topics were proposed:
 1. Wave Committee Update
 2. Vessel Collision
 3. Hydraulic Sizing & Scour
 4. Load Rating Study and Full Scale Load Test – Bridge Management

David Simpson will be meet with Domenic Coletti on August 20th to discuss topic and timing of next workshop.

- 3) **Transformation Update** – Greg Perfetti provided an update on the effect of the Transformation process on the Structure Design Unit.
 - a. The Structure Design Unit is on target to design 212 bridges this year. Next year, so far only 80 bridges are programmed for design. Additional new starts for bridge replacement environmental documents is supposed to ramp up over the next 5 years with 40 new this year, 40 next year, etc. until 200 is reached.
 - b. Update on funneling bridge projects through the Divisions – NCDOT is still talking about the procedures to be used. Some Divisions are on board, others are not. Lack of funding is still restricting the implementation of Division Projects.
 - c. The Oberstar Bill did bring some money and allowed NCDOT to pick up several NCMA projects that were on the shelf.



- 4) **Training Opportunities** – An LRFD Seismic Design Workshop is planned for Spring of 2009. Reggie Holt with FHWA will lead the Workshop. An LRFR Workshop is planned for November 2008 to be taught by Tom Saad with FHWA.
- 5) **Structure Policy Memos** – One new policy memo has been issued:
 - a. 0.6" Diameter Strands – all standard prestressed elements including beams, cored slabs and box beams will be detailed with 0.6" diameter prestressing strands. The transverse post-tensioning strand hole in cored slabs and box beams has been revised to 2 ½" diameter to accommodate the larger strand diameter.
 - b. Figure 11-3 (bridge length-depth) update to make this chart less restrictive on bridge superstructure depth.
 - c. Standard 1" thick plain elastomeric pad for cored slabs / box beams
- 6) **Anticipated PEF Advertisements** - Lonnie Brooks identified the following projects as potential advertisements for PEFs.
 - a. I-3819 (I-40/I-77 Interchange)
 - Field Inspection in September 2008
 - Currently contains 10 bridges (6 Grade Separations and 4 Stream Crossings)
 - May advertise soon subject to the results of the field inspection
 - Letting scheduled for 9/2010
 - b. R-2633B
 - 4 RR Overheads / Highway Overpass Combinations
 - 9 RR Overheads
 - 7 Grade Separations
 - 4 Stream Crossings
 - May advertise in 1/2009
 - Funding concerns
 - c. U-0071A (Durham East End Connector)
 - 1 RR Underpass
 - Fall 2010
 - d. R-2545B (Alligator River)
 - 1 Stream Crossing
 - Fall 2010

7) Technical Discussion

- a. LRFD Foundation Design Implementation – Geotech has sent a draft copy of the LRFD Foundation Design Guidelines to Structure Design for review and comment.

8) Other Topics – None discussed.

9) Next Meeting – 10:30am Monday, November 3rd